

Appendix VII

Alignment of instant SEQ ID NO:3 with SEQ ID NO: 18 of Sisk et al.

Score = 4913 bits (2660), Expect = 0.0
Identities = 2660/2660 (100%), Gaps = 0/2660 (0%)
Strand=Plus/Plus

Query	1	GAATTCAGCACTGAATCATGCCCAGAACCCCCGCAATCTATTGGCTGTGCTTTGGCCCCCT	60
Sbjct	1	GAATTCAGCACTGAATCATGCCCAGAACCCCCGCAATCTATTGGCTGTGCTTTGGCCCCCT	60
Query	61	TTTCCCAACACACACATTCTGTCTGGTGGGTGGAGGGGAAACATGCGGGGAGGAGGAAAG	120
Sbjct	61	TTTCCCAACACACACATTCTGTCTGGTGGGTGGAGGGGAAACATGCGGGGAGGAGGAAAG	120
Query	121	GAATAGGATAGAGAGTGGGATGGGGTCCGTAGGGGTCTCAAGGACTGGCCTATCCTGACA	180
Sbjct	121	GAATAGGATAGAGAGTGGGATGGGGTCCGTAGGGGTCTCAAGGACTGGCCTATCCTGACA	180
Query	181	TCCTTCTCCGCGTTCAGGTTGGCCACCATGGCCTGCTGCCAGAGGGCACCACAGTGACCC	240
Sbjct	181	TCCTTCTCCGCGTTCAGGTTGGCCACCATGGCCTGCTGCCAGAGGGCACCACAGTGACCC	240
Query	241	TTAAAGAGAGGACAAGTTGGGTGGTATCTCTGGCTGACATTCCTGTGCACAACCCCTCACAA	300
Sbjct	241	TTAAAGAGAGGACAAGTTGGGTGGTATCTCTGGCTGACATTCCTGTGCACAACCCCTCACAA	300
Query	301	CGCTGGTGTATGGTGGGAAGGGAAGATGACAAGTCAGGGGGCATGATCCCAGCATGTGTG	360
Sbjct	301	CGCTGGTGTATGGTGGGAAGGGAAGATGACAAGTCAGGGGGCATGATCCCAGCATGTGTG	360
Query	361	GGAGGAGCTTCTAAATTATCCATTAGCACAAAGCCCGTCAGTGGCCCCAGGCCTAAACATG	420
Sbjct	361	GGAGGAGCTTCTAAATTATCCATTAGCACAAAGCCCGTCAGTGGCCCCAGGCCTAAACATG	420
Query	421	CAGAGAAACAGGTGAGGAGAAGCAGCGAGAGAGAAAGGGGCCAGGTATAAAAAGGGCCAC	480
Sbjct	421	CAGAGAAACAGGTGAGGAGAAGCAGCGAGAGAGAAAGGGGCCAGGTATAAAAAGGGCCAC	480
Query	481	AAGAGACCAGCTCAAGGATCCCAAGGCCCAACTCCCCGAACCACTCAGGGTCCTGTGGAC	540
Sbjct	481	AAGAGACCAGCTCAAGGATCCCAAGGCCCAACTCCCCGAACCACTCAGGGTCCTGTGGAC	540
Query	541	AGCTCACTAGCGGCAATGGCTGCAGGTAAGCGCCCTAAATCCCTTTGGCACAATGTGT	600
Sbjct	541	AGCTCACTAGCGGCAATGGCTGCAGGTAAGCGCCCTAAATCCCTTTGGCACAATGTGT	600
Query	601	CCTGAGGGGAGAGGCGGCGTCCTGTAGATGGGACGGGGGCACTAACCCCTCAGGTTTGGGG	660
Sbjct	601	CCTGAGGGGAGAGGCGGCGTCCTGTAGATGGGACGGGGGCACTAACCCCTCAGGTTTGGGG	660
Query	661	CTTATGAATGTTAGCTATCGCCATCTAAGCCCAGTATTTGGCCAATCTCTGAATGTTCCCT	720
Sbjct	661	CTTATGAATGTTAGCTATCGCCATCTAAGCCCAGTATTTGGCCAATCTCTGAATGTTCCCT	720
Query	721	GGTCCCTGGAGGAGGCAGAGAGAGAGAGAGAGAGAGAAAAAAAACCCAGCTCCTGGAACAGG	780
Sbjct	721	GGTCCCTGGAGGAGGCAGAGAGAGAGAGAGAGAGAGAGAGAAAAAAAACCCAGCTCCTGGAACAGG	780
Query	781	GAGAGCGCTGGCCTCTTGCTCTCCAGCTCCCTCTGTTGGCTCCGGTTTCTCCCCAGGCTC	840
Sbjct	781	GAGAGCGCTGGCCTCTTGCTCTCCAGCTCCCTCTGTTGGCTCCGGTTTCTCCCCAGGCTC	840

Query	841	CCGGACGTCCCTGCTCCTGGGCTTTTGGCCCTGCTCTGCCCTGCTCCTGGGCTTCAAGAGGGCAG	900
Sbjct	841	CCGGACGTCCCTGCTCCTGGGCTTTTGGCCCTGCTCTGCCCTGCTCCTGGGCTTCAAGAGGGCAG	900
Query	901	TGCCTTCCCAACCATTCCCTTATCCAGGCTTTTGTGACAACGCTATGCTCCGCGCCCGTCG	960
Sbjct	901	TGCCTTCCCAACCATTCCCTTATCCAGGCTTTTGTGACAACGCTATGCTCCGCGCCCGTCG	960
Query	961	CCTGTACCAGCTGGCATATGACACCTATCAGGAGTTTGTAAAGCTCTTGGGTAATGGGTGC	1020
Sbjct	961	CCTGTACCAGCTGGCATATGACACCTATCAGGAGTTTGTAAAGCTCTTGGGTAATGGGTGC	1020
Query	1021	GCTTCAGAGGTGGCAGGAAGGGGTGAATTTCCCCCGCTGGGAAGTAATGGGAGGAGACTA	1080
Sbjct	1021	GCTTCAGAGGTGGCAGGAAGGGGTGAATTTCCCCCGCTGGGAAGTAATGGGAGGAGACTA	1080
Query	1081	AGGAGCTCAGGGTTGTTTTCTGAAGTGAAAATGCAGGCAGATGAGCATACGCTGAGTGAG	1140
Sbjct	1081	AGGAGCTCAGGGTTGTTTTCTGAAGTGAAAATGCAGGCAGATGAGCATACGCTGAGTGAG	1140
Query	1141	GTTCCCAAGAAAGTAACAATGGGAGCAGGTCTCCAGCATAGACCTTGGTGGGCGGTCTCT	1200
Sbjct	1141	GTTCCCAAGAAAGTAACAATGGGAGCAGGTCTCCAGCATAGACCTTGGTGGGCGGTCTCT	1200
Query	1201	CTCCTAGGAAGAAGCCTATATCTCTGAAGGAGCAGAAGTATTCATTCTGCAGAACCCCCA	1260
Sbjct	1201	CTCCTAGGAAGAAGCCTATATCTCTGAAGGAGCAGAAGTATTCATTCTGCAGAACCCCCA	1260
Query	1261	GACCTCCCTCTGCTTCTCAGAGTCTATTCCAACACCTTCCAACAGGGTGAAAACGCAGCA	1320
Sbjct	1261	GACCTCCCTCTGCTTCTCAGAGTCTATTCCAACACCTTCCAACAGGGTGAAAACGCAGCA	1320
Query	1321	GAAATCTGTGAGTGGATGCCTTCTCCCCAGGTGGGATGGGGTAGACCTGTGGTTCAGAGCC	1380
Sbjct	1321	GAAATCTGTGAGTGGATGCCTTCTCCCCAGGTGGGATGGGGTAGACCTGTGGTTCAGAGCC	1380
Query	1381	CCCGGGCAGCACAGCCACTGCCGGTCTCTCCCCCTGCAGAACCTAGAGCTGCTCCGCATCT	1440
Sbjct	1381	CCCGGGCAGCACAGCCACTGCCGGTCTCTCCCCCTGCAGAACCTAGAGCTGCTCCGCATCT	1440
Query	1441	CCCTGCTGCTCATCCAGTCATGGCTGGAGCCCGTGCAGCTCCTCAGGAGCGTCTTCGCCA	1500
Sbjct	1441	CCCTGCTGCTCATCCAGTCATGGCTGGAGCCCGTGCAGCTCCTCAGGAGCGTCTTCGCCA	1500
Query	1501	ACAGCCTGGTGTATGGCGCCTCGGACAGCAACGCTCTATCGCCACCTGAAGGACCTAGAGG	1560
Sbjct	1501	ACAGCCTGGTGTATGGCGCCTCGGACAGCAACGCTCTATCGCCACCTGAAGGACCTAGAGG	1560
Query	1561	AAGGCATCCAAACGCTGATGTGGGTGAGGGTGGCACCAGGATCCAATCCTGGGGCCCCAC	1620
Sbjct	1561	AAGGCATCCAAACGCTGATGTGGGTGAGGGTGGCACCAGGATCCAATCCTGGGGCCCCAC	1620
Query	1621	TGGCTTCCAGGGACTGGGGAGAGAAACACTGCTGCCCTCTTTTTCAGAGTCAGGCGCTGA	1680
Sbjct	1621	TGGCTTCCAGGGACTGGGGAGAGAAACACTGCTGCCCTCTTTTTCAGAGTCAGGCGCTGA	1680
Query	1681	CCCAAGAGAACTCACCGTATTCTTCATTTCCCTCGTGAATCCTCCAGGCCTTTCTCTAC	1740
Sbjct	1681	CCCAAGAGAACTCACCGTATTCTTCATTTCCCTCGTGAATCCTCCAGGCCTTTCTCTAC	1740
Query	1741	AACCTGGAGGGGAGGGAGGAAATGGATGAATGAGAGAGGGAGGGAACAGTGCCCAAGCG	1800
Sbjct	1741	AACCTGGAGGGGAGGGAGGAAATGGATGAATGAGAGAGGGAGGGAACAGTGCCCAAGCG	1800

Query	1801	CTTGGCCTCTCCTTCTCTTCCTTCACTTTGCGAGAGGCTGGAAGATGGCAGCCCCGGACT	1860
Sbjct	1801	CTTGGCCTCTCCTTCTCTTCCTTCACTTTGCGAGAGGCTGGAAGATGGCAGCCCCGGACT	1860
Query	1861	GGGCAGATCTTCAATCAGTCCTACAGCAAGTTTGACACAAAATCGCACAAAGATGACGCA	1920
Sbjct	1861	GGGCAGATCTTCAATCAGTCCTACAGCAAGTTTGACACAAAATCGCACAAAGATGACGCA	1920
Query	1921	CTGCTCAAGAACTACGGGCTGCTCTACTGCTTCAGGAAGGACATGGACAAGGTCGAGACA	1980
Sbjct	1921	CTGCTCAAGAACTACGGGCTGCTCTACTGCTTCAGGAAGGACATGGACAAGGTCGAGACA	1980
Query	1981	TTCTTGGCGCATCGTGCAGTGCCGCTCTGTGGAGGGCAGCTGTGGCTTCTAGCTGCCCGGG	2040
Sbjct	1981	TTCTTGGCGCATCGTGCAGTGCCGCTCTGTGGAGGGCAGCTGTGGCTTCTAGCTGCCCGGG	2040
Query	2041	TGGCATCCCTGTGACCCCTCCCCAGTGCCCTCTCTGGTCGTGGAAGGTGCTACTCCAGTG	2100
Sbjct	2041	TGGCATCCCTGTGACCCCTCCCCAGTGCCCTCTCTGGTCGTGGAAGGTGCTACTCCAGTG	2100
Query	2101	CCCACCAGCCTTGTCTTAATAAAATTAAAGTTGCATCATTTTGTTTGACTAGGTGTCCTTG	2160
Sbjct	2101	CCCACCAGCCTTGTCTTAATAAAATTAAAGTTGCATCATTTTGTTTGACTAGGTGTCCTTG	2160
Query	2161	TATAATATTATGGGGTGGAGGCGGGTGGTATGGAGCAAGGGGCCAGGTTGGGAAGACAAC	2220
Sbjct	2161	TATAATATTATGGGGTGGAGGCGGGTGGTATGGAGCAAGGGGCCAGGTTGGGAAGACAAC	2220
Query	2221	CTGTAGGGCCTTCAGGGTCTATTTCGGGAACCAGGCTGGAGTGCAGTGGCAGTCTTGGCTC	2280
Sbjct	2221	CTGTAGGGCCTTCAGGGTCTATTTCGGGAACCAGGCTGGAGTGCAGTGGCAGTCTTGGCTC	2280
Query	2281	GCTGCAATCTCCGCCTCCTGGGTTCAAGCGATTCTCCTGCCTCAGTCTCCCGAATAGTTG	2340
Sbjct	2281	GCTGCAATCTCCGCCTCCTGGGTTCAAGCGATTCTCCTGCCTCAGTCTCCCGAATAGTTG	2340
Query	2341	CGATTCCAGGCATGCAAGACCAGGCTCAGCTAATTTTGTATTTTGGTAGAGACGGGGT	2400
Sbjct	2341	CGATTCCAGGCATGCAAGACCAGGCTCAGCTAATTTTGTATTTTGGTAGAGACGGGGT	2400
Query	2401	TTCAACCATATTGGCCAGTCTGGTCTCCATCTCCTGACCTCAGGTAATCCGCCCGCCTCGG	2460
Sbjct	2401	TTCAACCATATTGGCCAGTCTGGTCTCCATCTCCTGACCTCAGGTAATCCGCCCGCCTCGG	2460
Query	2461	CCTCCCAAATTGCTGGGATTACAGGTATGAGCCACTGGGGCCCTTCCCTGTCTGTGATTT	2520
Sbjct	2461	CCTCCCAAATTGCTGGGATTACAGGTATGAGCCACTGGGGCCCTTCCCTGTCTGTGATTT	2520
Query	2521	TAAAATAATTATACAGCAGAAGGACGTCCAGACACAGCATGGGCTACCTGGCCATGCC	2580
Sbjct	2521	TAAAATAATTATACAGCAGAAGGACGTCCAGACACAGCATGGGCTACCTGGCCATGCC	2580
Query	2581	AGCCAGTTGGACATTTGAGTTGTTTGGCTTGGCACTGTCTCTCATGCATTGGGTCCACTC	2640
Sbjct	2581	AGCCAGTTGGACATTTGAGTTGTTTGGCTTGGCACTGTCTCTCATGCATTGGGTCCACTC	2640
Query	2641	AGTAGATGCTTGTGAATTC	2660
Sbjct	2641	AGTAGATGCTTGTGAATTC	2660